MULTIMEDIA UNIVERSITY

STUDENT ID NO | | | | | | | | | | |

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2015/2016

DAC5018 – COMPUTER APPLICATIONS

(For Diploma Students Only)

2 JUNE 2016
9.00 AM – 11.00 AM
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **8** pages.
2. There are **3** sections in this Question paper.

   Section A: Multiple Choice Question (25 marks)
   Section B: True/False Questions (25 marks)
   Section C: Structured Questions (50 marks)

3. For **Section A and B,** please mark your answers in the **OMR sheet** provided.
4. For **Section C**, please write your answers in the **Answer Booklet** provided.

Section A: Multiple Choice Questions (25 marks)
Instruction: Please mark all your answers in the **OMR sheet** provided.

1. What is a byte?
   A. A byte is a binary digit.
   B. A byte consists of eight bits.
   C. A byte represents 255 unique binary codes.
   D. A byte is the smallest storage unit of computer systems.

2. Which of the following statement is **TRUE** about the function of Label X in **Figure 1** below?

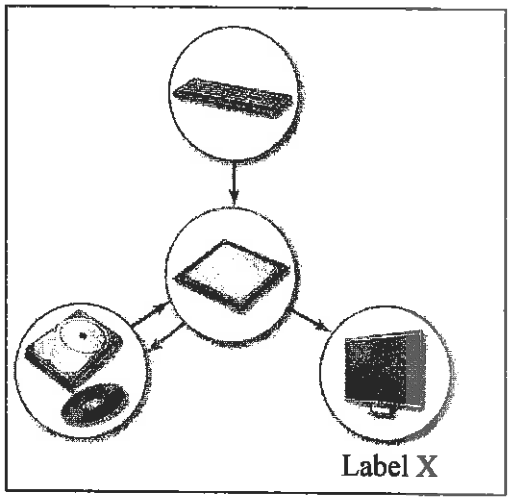

Figure 1: Parts of Computer

   A. It saves data and information for later use.
   B. It gathers data, or allows users to enter data.
   C. It displays data and information in a suitable from for the user.
   D. It manipulates, calculates, or organizes that data into information.

3. Which of the following devices is considered as volatile storage?
   A. ROM
   B. Optical Disc
   C. RAM
   D. Flash Drive

4. The following statements are **TRUE** about the guidelines for ensuring a safe online shopping experience **EXCEPT**:
   A. Pay by credit card, not debit card.
   B. Shop at well-known, reputable sites.
   C. Use public computers when making online transactions.
   D. Look for visual indicators in Web browser that the web is secured.

Continued.....

5. Which of the following is **NOT** a characteristic of webcasts?
   A. Webcasts are not updated automatically.
   B. Webcasts are distributed in real time.
   C. Webcasts deliver their content using Really Simple Syndication (RSS).
   D. Webcasts invite interactive responses from the viewing or listening audience.

6. Which of the following statement accurately defines an IP address?
   A. A protocol that allows files to be transferred from a Web server.
   B. Comprised of a series of audio or video files that are distributed over the Internet.
   C. A set of four group of numbers separated dots that consists of top level domain.
   D. A unique identification number assigned to a computer when it connects to the Internet.

7. What type of software enables you to manage larger and more complicated groups of data that contain more than one table?
   A. Word processing
   B. Spreadsheet
   C. Presentation
   D. Database

8. Which is **NOT** an example of application for computer-aided design software (CAD)?
   A. Architects use CAD software to build virtual models of their plans and readily visualize all aspects of design before actual construction.
   B. Engineers use CAD software to design everything from factory components to bridges.
   C. Web developers use CAD software to design interesting and interactive web pages.
   D. The medical engineering community uses CAD software to create anatomically accurate solid models of the human body, developing medical implants quickly and accurately.

9. Installation wizards that let you decide which features you want to install in your hard drive is called _____ installation.
   A. full
   B. pack
   C. half
   D. custom

10. Which of the following is **NOT** an example of operating system?
   A. Android 4.4
   B. Linux
   C. Windows 8.0
   D. Kernel 1.0

Continued.....

11. Which is the **CORRECT** order of the boot process?
    A. Check settings, Load OS into RAM, Activate BIOS, Perform POST
    B. Load OS into RAM, Check settings, Perform POST, Activate BIOS
    C. Activate BIOS, Perform POST, Load OS into RAM, Check settings
    D. Perform POST, Load OS into RAM, Activate BIOS, Check settings

12. Which of the following is **NOT** the function of operating system?
    A. Manages computer networking
    B. Enables user to interact with the computer
    C. Manages computer hardware and peripherals
    D. Provides a consistent interaction between applications and the CPU

13. Which of the following file extension indicates a file created by a word processing program in the Office 2007 suite?
    A. assignmentreport.xls
    B. assignmentreport.jpg
    C. assignmentreport.docx
    D. assignmentreport.pdf

14. Which of the following computer component is **NOT** located on a comptuer motherboard?
    A. Optical Drive Disc
    B. Processor
    C. RAM slot
    D. Input/ Output connectors

15. From the **Figure 2** below, what is the speed of CPU installed on the computer?

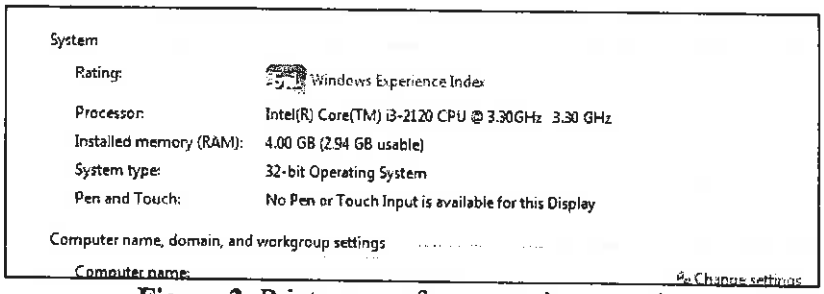

Figure 2: Printscreen of computer's properties

    A. 4 GB
    B. 2.94 GB
    C. 3.30 Ghz
    D. 32-bit

16. Startup instructions are stored in _____.
    A. RAM
    B. ROM
    C. hard Disk
    D. cache

Continued.....

17. If your system is slowing down, browsers and other programs are behaving strangely, you should:
    A. Run Disk Cleanup utility.
    B. Run Disk Defragmenter utility.
    C. Check System Restore.
    D. Run spyware and adware removal software.

18. Which of the following is **TRUE** about multimedia message service?
    A. Technology that allows you to send short text messages, up to 160 characters over cellular networks.
    B. Technology that allows you to send messages that include text, sound, images, and video clips to other phones or e-mail addresses.
    C. Technology that allows voice-based Internet communication that turns a standard Internet connection into a means to place phone calls, including long-distance calls.
    D. Technology that converts the digital numbers to a continuous analog wave.

19. Which is **NOT** a factor determines the quality of images taken with a digital camera?
    A. The quality of the lenses used
    B. The camera's resolution
    C. The file format and compression used
    D. The number of channel used

20. Which of the following is **NOT** the advantage of using digital format over analog format?
    A. Digital information can be reproduced exactly and distributed easily.
    B. Digital media format allows us to have more entertainment, and allow us to have more visualization.
    C. The distribution of digital media format could save a lot of time and money.
    D. Digital media format uses a wave to represent data; the more waves, the more information.

21. Which of the following is an example of analog media?
    A. film stored on tapes
    B. streaming music stations
    C. film distributed on DVD
    D. high-definition digital television

22. Which of the following is **NOT** an antivirus software?
    A. Kapersky
    B. AVG
    C. Vinamp
    D. Symantec

Continued.....

23. The below statement is referring to _____ function in an antivirus software.

> "Antivirus software records key attributes about your computer files, such as file size and date created, and keeps these statistics in a safe place on your hard drive"

A. quarantine
B. inoculation
C. detection
D. scan

24. _____ are individuals who use computers, networks, and the Internet to perpetrate crime.
A. Cybercriminals
B. Cybercrimes
C. Thefts
D. Computer crimes

25. Which of the following about cookies in networking is **FALSE?**
A. Allow hackers to gain access to your computer and take almost complete control of it without your knowledge.
B. Provide websites with information about browsing habits.
C. Only collect information you supply when filling out forms.
D. Cookies are small text files that some websites automatically store on your hard drive when you visit them.

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Section B: True / False, Questions 26 - 50 (25 marks)

Instruction: Please mark **A** for True statements and **B** for False statements in the **OMR sheet** provided.

26. System software is the set of programs to help you carry out tasks such as writing a research paper.
27. A supercomputer is a specially designed computer that performs complex calculations rapidly.
28. The most common output devices are monitors, printers, micophone and speakers.
29. InPrivate browsing let you browse the web without retaining a history trail, temporary internet files, cookies, or usernames and passwords.
30. A video log is a blog that uses images as the primary content.
31. Google docs is an example of Wiki, a web application that allows users to add, remove, or edit its content.
32. Open source software is a free software that is available with few licensing and copyright restrictions.
33. Microsoft Excel and Apache OpenOffice Calc are two examples of spreadsheet software.
34. Adobe Premiere Pro helps professionals to design books and other publications that require complex layouts.
35. A file is a collection of program instructions or data that is stored and treated as a single unit.
36. File deleted from a flash drive does not go to the Recycle Bin but are deleted from the system immediately.
37. WinZip and Vinamp are the examples of file compression utility program.
38. Speech recognition program allows you to dictate text and control your computer by voice.
39. DDR3 memory has faster data transfer rate compared to DDR5.
40. Having more RAM often helps programs run more efficiently.
41. A video card is also known as video adapter that is installed inside the system unit to translate binary data into the images you view on your monitor.
42. CPUs are evaluated based on the clock speed, the number of cores, and the amount of cache memory.
43. The primary input devices for a smartphone are microphone, OLED and touch pad.
44. Popular processors for smartphones include Qualcomm Snapdagron and Apple A5.
45. The Apple iOS, Mac OSX, Android, and UNIX are all mobile operating systems.
46. Skype is very well-known provider for creating a VoIP account.
47. Linux comes with a program called Windows Defender, which scans your system for spyware and other potentially unwanted software.
48. The internal IP addresses are used for open network.
49. Black-hat hackers break into systems to destroy information or for illegal gain.
50. If you keep both your antivirus and OS software up to date, it will help to prevent viruses from infecting your computer.

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Section C: 5 Structured Questions (50 marks)
Instruction: Please write all your answers in the **Answer Booklet** provided.

QUESTION 1

a) Sastri is still considering whether to buy an ink-jet printer or the laser printer for his workstation. Differentiate between ink-jet and laser printer in order to help Sastri in making decision. (6 marks)

b) Jason wants to send an email asking for a promotion to his boss. Explain **FOUR (4)** email writing guidelines for Jason to have a formal and professional email. (4 marks)

[Total: 10 Marks]

QUESTION 2

a) Kamal was assigned to create a short montage video for Digital Video Competition. Suggest **FOUR (4)** video editing software and **TWO (2)** audio editing software that Kamal could use to create the montage video. (6 marks)

b) Whether you are working on a word processing document, spreadsheet, database, or slide presentation, you can make use of several tools to increase your task efficiency. Discuss **TWO (2)** types of tools you can use to increase the efficiency. (4 marks)

[Total: 10 Marks]

QUESTION 3

a) By assuming you are typing and want to print a document at the same time, discuss the following terms in processor management:

i. Interrupt (2 marks)
ii. Interrupt handler (2 marks)
iii. Preemptive multitasking (2 marks)

b) Define utility programs. Describe **ONE (1)** type of utility programs and give **ONE** example. (4 marks)

[Total: 10 Marks]

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QUESTION 4

a) List and describe the function of all **FOUR (4)** labels in **Figure 3** below:

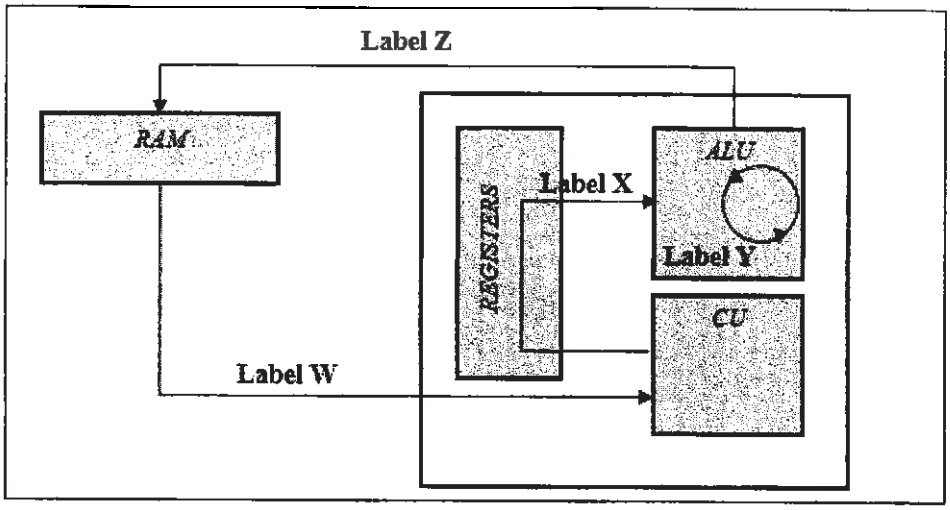

Figure 3: Computer machine cycle diagram

i. **Label W** (2 marks)
ii. **Label X** (2 marks)
iii. **Label Y** (2 marks)
iv. **Label Z** (2 marks)

b) What is the disadvantage of overclocking the processor in a computer? (2 marks)

[Total: 10 Marks]

QUESTION 5

a) Security is one of the most critical issue that we need to consider especially when using the Web application. Identify and briefly explain **THREE (3)** major categories of virus that could be a threat when using the web. (6 marks)

b) Adam has lost his data in his computer due to accidental data destruction. Advise and explain in details the **TWO (2)** backup options that Adam should consider as a precaution in future. (4 marks)

[Total: 10 Marks]

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